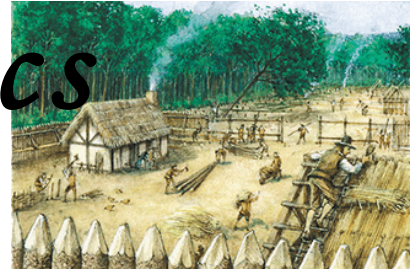


Name : _____

Date: _____

Jamestown Mathematics



1. When John Smith was taken captive by the Powhatan, he tried to gather as much information as he could about his surroundings. One time, he overheard two Powhatan saying that their hunters had brought in 14 animals from the days hunt – enough for 34 animal legs! John Smith figured that the two animals the Powhatan had hunted were deer and turkeys. If he was right, how many of each type of animal did the hunt bring in?
2. Watch out! There is a skirmish (a small battle) going on between the Powhatan and the residents of Jamestown. When you arrive on the scene, you are told that the soldiers have already fired 62 rounds of musket fire on the Powhatan. You notice that there are 10 soldiers involved, and you know that each soldier can fire his musket twice in one minute.
 - a. Write a linear function, in function notation, that relates the number of minutes of battle **after your arrival** to the number of rounds that the soldiers have fired.

- b. *What is the rate of change in this scenario? Write the number and describe what the number represents.*
- c. *What is the initial value? Write the number and describe what the number represents.*
- d. *What do the two variables in your function equation represent?*
- e. *Assuming that the rate of change is constant, how many minutes after your arrival will it take for the soldiers to have fired 1,000 rounds?*
- f. *Graph this scenario! Remember to label your axes and use appropriate increments!*

